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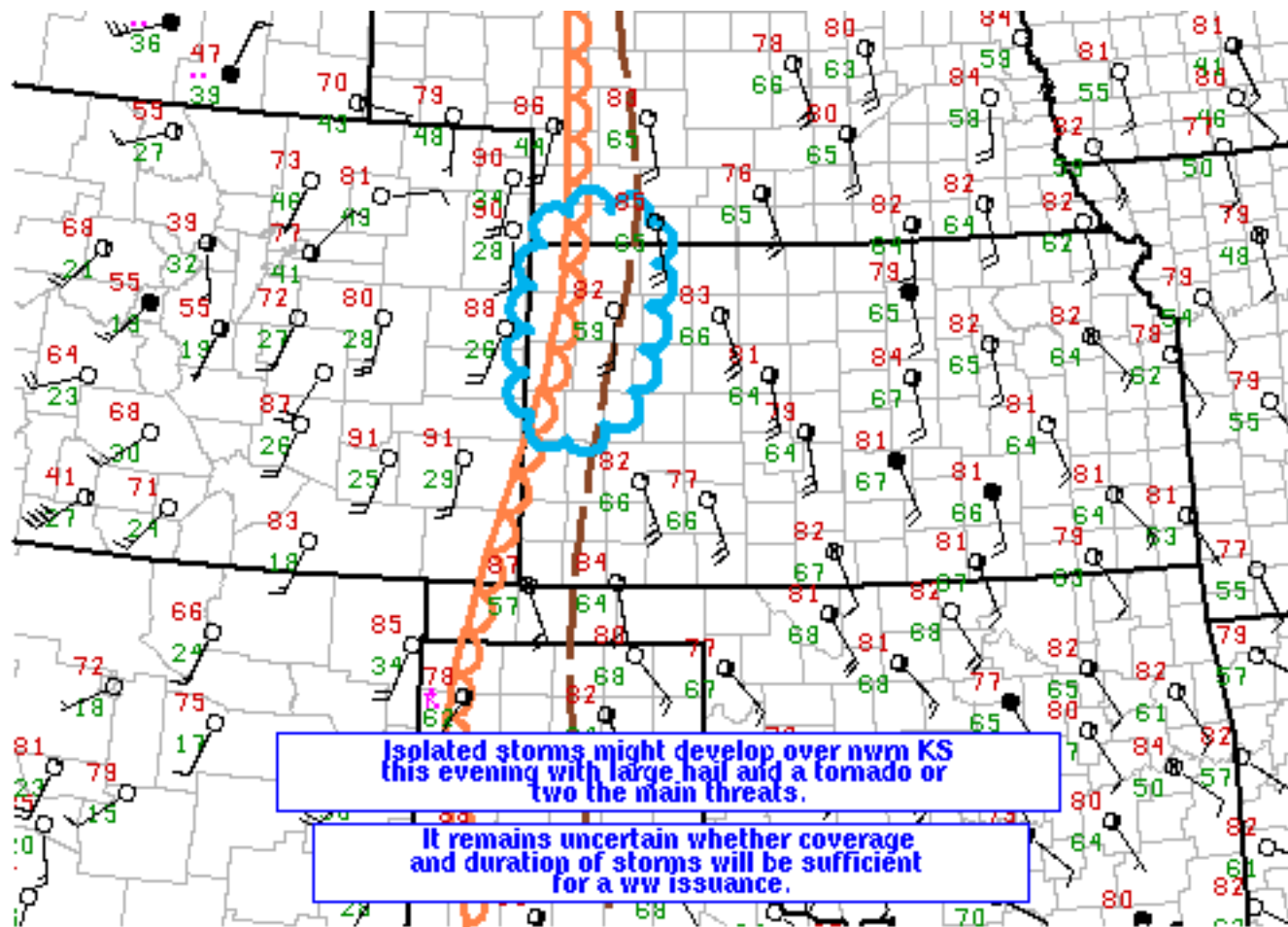
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## Mesoscale Discussion 679

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**SPC MCD #0679**

MESOSCALE DISCUSSION 0679

NWS STORM PREDICTION CENTER NORMAN OK

0545 PM CDT SUN MAY 22 2016

AREAS AFFECTED...NWRN KS AND EXTREME SWRN NEB

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 222245Z - 230045Z

PROBABILITY OF WATCH ISSUANCE...40 PERCENT

SUMMARY...SOME POTENTIAL EXISTS FOR ISOLATED STORMS TO INITIATE OVER NWRN KS THIS EVENING. SHOULD STORMS DEVELOP...PRIMARY THREAT WILL BE LARGE HAIL...BUT A BRIEF TORNADO WOULD ALSO BE POSSIBLE. IT REMAINS UNCERTAIN WHETHER COVERAGE AND DURATION OF ANY STORMS WILL BE SUFFICIENT FOR A WW...BUT TRENDS WILL CONTINUE TO BE MONITORED.

DISCUSSION...EARLY THIS EVENING VISIBLE IMAGERY INDICATES A BAND OF TOWERING CUMULUS FORMING ALONG A N-S ORIENTED CONVERGENCE ZONE IN NWRN KS. THIS ZONE OF CONVERGENCE IS MOVING WWD WHERE IT WILL

EVENTUALLY MERGE WITH THE DRYLINE. THE ATMOSPHERE IN THIS CORRIDOR IS MODERATELY TO STRONGLY UNSTABLE WITH 2000-3000 J/KG MLCAPE AND ONLY MODEST CONVECTIVE INHIBITION REMAINING. THIS REGION REMAINS NORTH OF THE RICHER LOW-LEVEL MOISTURE AND SOUTH OF THE ZONE OF STRONGER FORCING ALOFT...WHICH MAY LIMIT FUTURE STORM COVERAGE AND DURATION...ESPECIALLY WITH ONSET OF NOCTURNAL COOLING. CURRENT INDICATIONS ARE THAT ISOLATED STORMS MAY DEVELOP AS WWD-MOVING CONVERGENCE ZONE MERGES WITH THE DRYLINE AND AS LLJ STRENGTHENS. LOW-LEVEL SHEAR AND HODOGRAPH SIZE WILL INCREASE THIS EVENING BUT MID-LEVEL WINDS WILL REMAIN MODEST...SUGGESTING ANY SUPERCELLS SHOULD TREND TOWARD HP IN CHARACTER. DURATION OF SEVERE THREAT WILL PROBABLY REMAIN LIMITED TO A 2-3 HOUR WINDOW BEFORE SFC LAYER COOLS AND CONVECTIVE INHIBITION INCREASES.

..DIAL/EDWARDS.. 05/22/2016

ATTN...WFO...DDC...GLD...

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